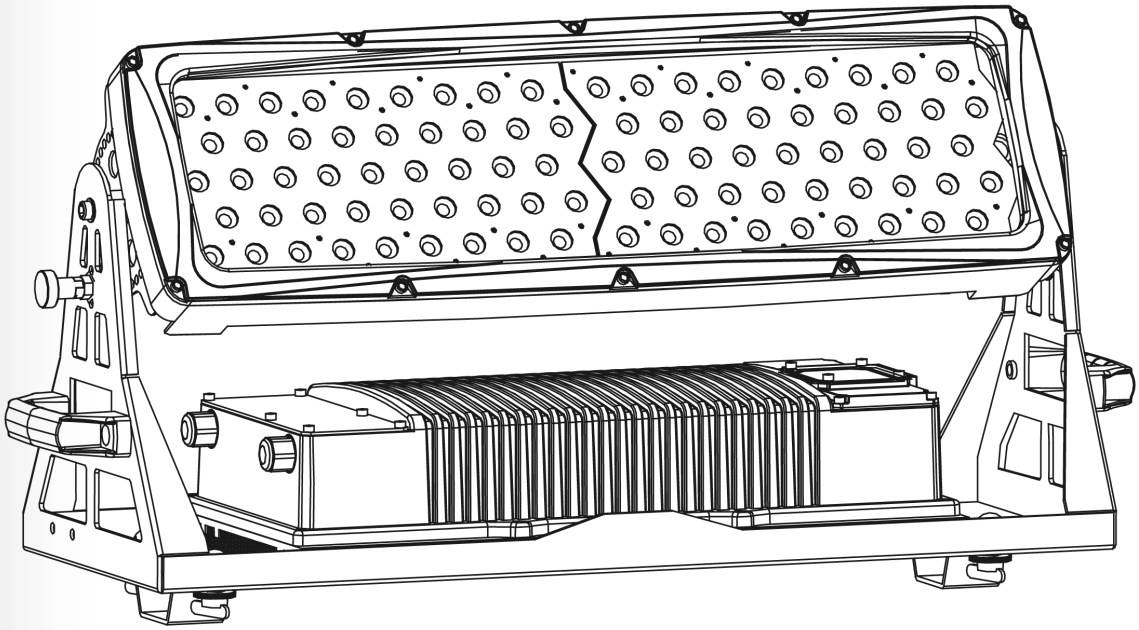
COLORADO™ RIDGE IP

User Manual



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Edition Notes

The COLORado™ Ridge IP User Manual Rev. 8 covers the description, safety precautions, installation, programming, operation, and maintenance of the COLORado™ Ridge IP. CHAUVET® released this edition of the COLORado™ Ridge IP User Manual in September 2012.

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Document Printing

For better results, print this document in color, on letter size paper (8.5 x 11 inches), double sided. If using A4 paper (210 x 297 mm), configure your printer to scale the content accordingly.

Intended Audience

Any person in charge of installing, operating, and/or maintaining this product should read the guide that shipped with it as well as this manual in their entirety before installing, operating, or maintaining this product.

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Document Revision

The COLORado™ Ridge IP User Manual Rev. 8 supersedes all previous versions of this manual. Please discard any older versions of this manual you may have, whether in printed or electronic format, and replace them with this version.

Author	Date	Editor	Date
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1. Before You Begin

What is Included

- One COLORado™ Ridge IP
- One Edison to Proprietary IP66 Power Input Adapter
- One Male and Female 3-pin DMX to Proprietary IP66 Adapter
- Two Omega Brackets
- One Safety Cable
- Warranty Card
- Quick Reference Guide

Claims

Carefully unpack the product immediately and check the box to make sure all the parts are in the package and are in good condition.

If the box or the contents (the product and included accessories) appear damaged from shipping or show signs of mishandling, notify the carrier immediately, not CHAUVET®. Failure to report damage to the carrier immediately may invalidate your claim. In addition, keep the box and contents for inspection.

For other issues, such as missing components or parts, damage not related to shipping, or concealed damage, file a claim with CHAUVET® within 7 days of delivery.

Text Conventions

Convention	Meaning
1~512	A range of values in the text
50/60	A set of mutually exclusive values in the text
“COLORado™ 1 UM”	The name of another publication or manual
<SET>	A button on the product’s control panel
Settings	A product function or a menu option
MENU > Settings	A sequence of menu options
1~10	A range of menu values from which to choose in a menu
Yes/No	A set of two mutually exclusive menu options in a menu
ON	A unique value to be entered or selected in a menu

Symbols

Symbol	Meaning
	Critical installation, configuration, or operation information. Failure to comply with this information may render the product partially or completely inoperative, damage third-party equipment, or cause harm to the user.
	Important installation or configuration information. Failure to comply with this information may prevent the product from functioning correctly.
	Useful information.

The term “DMX” used throughout this document refers to the USITT DMX512-A transmission protocol.

Product at a Glance

Use on Dimmer	⊘	Auto Programs	✓
Outdoor Use	✓	Auto-ranging Power Supply	✓
Sound Activated	⊘	Replaceable Fuse	⊘
DMX	✓	User Serviceable	⊘
Master/Slave	✓	Duty Cycle	⊘

Safety Notes

Read all these Safety Notes before starting to work with this product. These notes include important safety information about the installation, usage, and maintenance of this product.

There are no user serviceable parts in this product. Any reference to servicing you find in this User Manual only applies to properly CHAUVET® certified technicians. Do not open the housing or attempt any repairs unless you are one of them.

Please refer to all applicable local codes and regulations for the proper installation of this product.

Personal Safety

- Avoid direct eye exposure to the light source while the product is on.
- Always disconnect this product from its power source before servicing.
- Always connect this product to a grounded circuit to avoid the risk of electrocution.
- Do not touch this product's housing when operating because it may be very hot.

Mounting and Rigging

- This product is for outdoor use (IP66). However, do not submerge it.
- This product weighs 53 lbs (24 kg). Always ask for help when mounting this product to avoid personal injuries or damage to the unit.
- Make sure there are no flammable materials close to this product while operating.
- When hanging this product, always secure it to a fastening device using a safety cable (included).
- Do not carry this product from the head; always use the handles.

Power and Wiring

- Always make sure that you are connecting this product to the proper voltage, as per the specifications in this manual or on the product's sticker.
- Never connect this product to a dimmer pack or rheostat.
- Never disconnect this product by pulling or tugging on the power cable.

Operation

- Do not operate this product if you see damage on the housing, lenses, or cables. In any of these cases, have the damaged parts replaced by an authorized technician at once.
- The maximum ambient temperature is 104° F (40° C). Do not operate this product at a higher temperature.
- In case of a serious operating problem, stop using this product immediately!

In the unlikely event that your CHAUVET® product may require service, contact CHAUVET® Technical Support.

Expected LED Lifespan

LEDs gradually decline in brightness over time, mostly because of heat. Packaged in clusters, LEDs exhibit higher operating temperatures than in ideal, single LED conditions. For this reason, using clustered LEDs at their fullest intensity significantly reduces the LEDs' lifespan. Under normal conditions, this lifespan can be of 40,000 to 50,000 hours. If extending this lifespan is vital, lower the operational temperature by improving the product's ventilation and reducing the external temperature. In addition, limiting the overall projection intensity may also help to extend the LEDs' lifespan.

2. Introduction

Product Description

The COLORado™ Ridge IP is a RGBWA high intensity wash product used to light a variety of both indoor and outdoor applications. It consists of a steel base and one adjustable panel. The base contains the power supply and the control unit. The panel is attached to the steel arms that come from the base and is individually adjustable. The DMX input and output cords use proprietary IP66 connectors and 3-pin XLR (male and female) adapters. The power input cord also uses a proprietary IP66 connector and an Edison adapter.

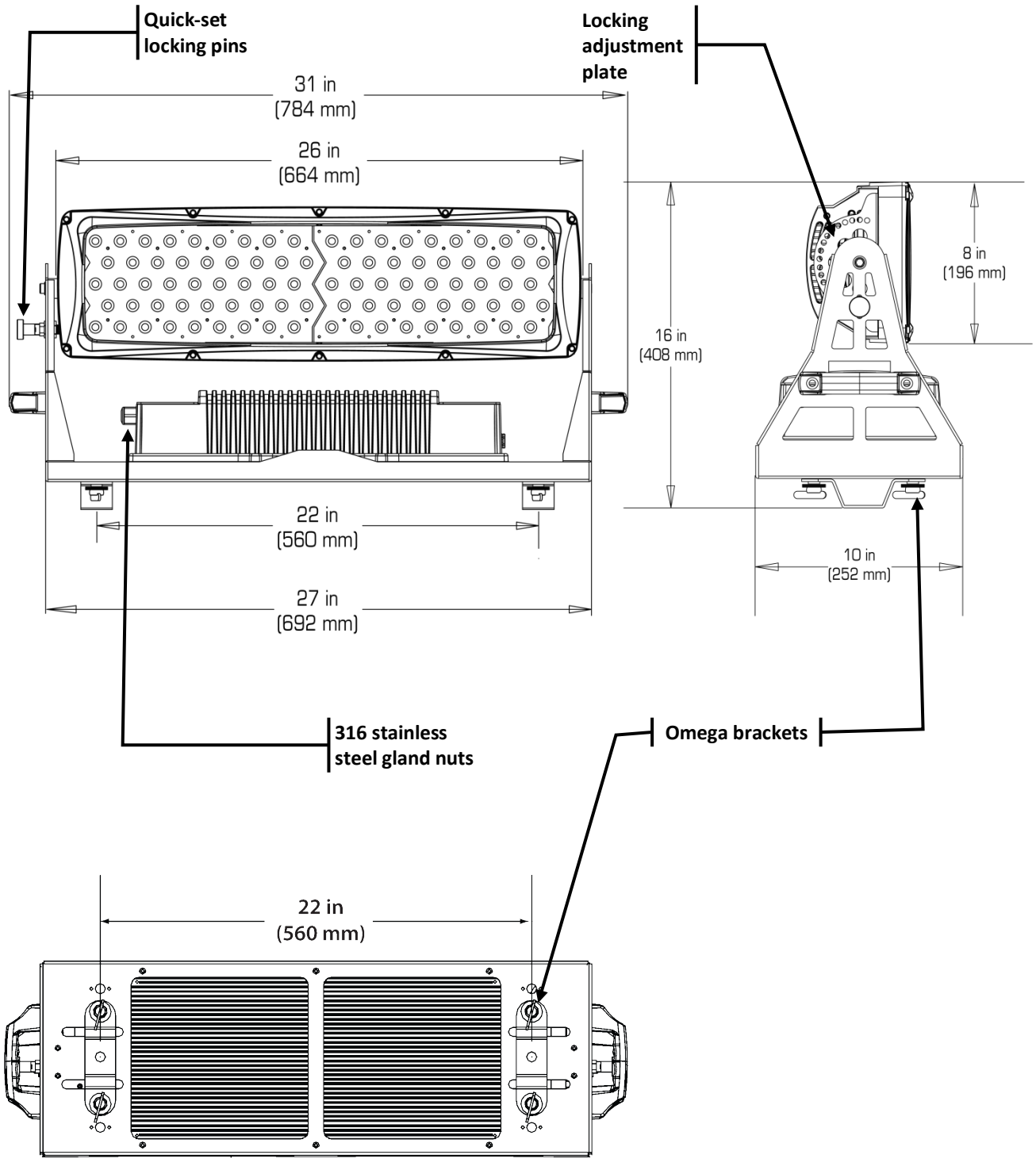
Features

- 3, 4, 5, 6, 7, or 11-channel RGBWA LED indoor/outdoor wash light
- Operating modes:
  - 3-channel: RGB control
  - 3-channel: HSV control
  - 4-channel: RGB, dimmer
  - 5-channel: RGBWA control
  - 6-channel: RGBWA, dimmer
  - 7-channel: RGBWA, dimmer, strobe
  - 11-channel: RGBWA, dimmer, strobe, macro, auto/custom, dimmer curve, auto speed
- RGBWA color mixing with or without DMX control
- Color temperature presets (3,200 ~ 10,000 K)
- Built-in automated programs
- Recall auto and custom programs via DMX
- Five distinct dimming curves
- LCD display with password protection
- Die-cast aluminum, powder coat finish housing
- Ingress protection IP66
- Color Calibration
- Omega bracket mounting system

Options

• 15° optical system	CL20x15 (20 15° lenses)
• 16.4 ft (5 m) IP66 power extension cable	IP5POWER
• 16.4 ft (5 m) IP66 signal extension cable	IP5SIG

Product Overview



3. Setup

AC Power

The COLORado™ Ridge IP has an auto-ranging power supply that works with an input voltage range of 100~240 VAC, 50/60 Hz.

Make sure that you are connecting this product to the proper voltage, as per the specifications in this manual or on the product's sticker.

Always connect this product to a protected circuit with an appropriate electrical ground to avoid the risk of electrocution or fire.

To determine the power requirements for the COLORado™ Ridge IP, refer to the label affixed to the side of the product. You can also refer to the *Technical Specifications* chart in the *Technical Information* chapter of this manual.

The listed current rating indicates the maximum current draw during normal operation. For more information, you may download the document *Sizing the Circuit Breakers* from the CHAUVET® website: www.chauvetpro.com.

Never connect this product to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.

AC Plug

The COLORado™ Ridge IP ships with an IP66 power input cord terminated with a proprietary IP66 connector and an IP66 to Edison power cord adapter. If the power cord adapter that came with your product has no plug or you need to change the Edison plug, use the table below to wire the new plug.

Connection	Wire (U.S.)	Wire (Europe)	IP66 Pin	Screw Color
AC Live	Black	Brown	1	Yellow or Brass
AC Neutral	White	Blue	2	Silver
AC Ground	Green/Yellow	Green/Yellow	3	Green

DMX Linking

You may link the COLORado™ Ridge IP to a DMX controller using a standard DMX serial connection. If using other DMX compatible products with this product, you can control them individually with a single DMX controller.

DMX Modes

The COLORado™ Ridge IP uses the standard DMX data connection for the **Tour**, **ARC.1**, **AR1.D**, **ARC.3**, **AR3.D**, **AR3.S**, and **HSV**, DMX modes. You will find information about these DMX modes in the *Introduction* chapter (brief description), the *Operation* chapter (configuration details), and the *DMX Values* section (individual channel values).

Master/Slave Connectivity

The Master/Slave mode enables a COLORado™ Ridge IP (the "master unit") to control one or more COLORado™ Ridge IPs (the "slave units") without a DMX controller. The COLORado™ Ridge IP becomes the master unit when running an auto or custom program, or by being in **STAT** mode. You must configure the slave units to operate in **SLAV** mode from their respective control panels. During the Master/Slave operation, the slave units will operate in unison with the master unit.

If you are not familiar with the DMX standard, master/slave connectivity, or if you need information about the DMX cables needed to link this product to a DMX controller, you may download the document *DMX Primer* from the CHAUVET® website: www.chauvetpro.com

DO NOT connect a DMX controller to the products operating in Master/Slave mode. Otherwise, the signals from the DMX controller may interfere with the signals from the master unit.

The *Operation* chapter of this manual provides detailed instructions on how to configure the Master and Slave units.

Mounting

Before mounting this product, read and follow the safety recommendations indicated in the Safety Notes section (page 2 of this manual).

Orientation

Always mount this product in any safe position while making sure that there is adequate room for ventilation, configuration, and maintenance.

Rigging

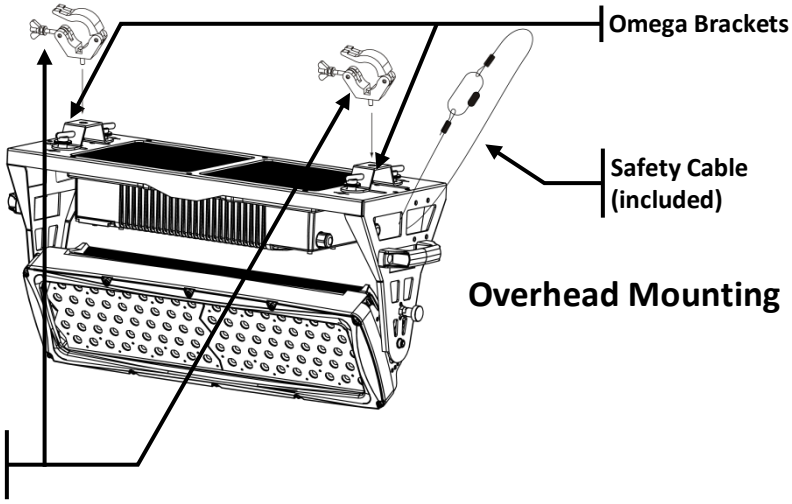
The COLORado™ Ridge IP consists of a heavy-duty rigid steel frame which enables this product to be hung overhead (using included omega brackets) or placed on the floor. CHAUVET® recommends following the general guidelines below when mounting this product.

- When selecting an installation location, consider ease of access to this product for operation, programming adjustments, and routine maintenance.
- Make sure to mount this product away from any flammable material as indicated in the Safety Notes section.
- If hanging this product, make sure that the location where you are mounting it can support its weight. Please see the Technical Specifications section of this manual for the weight requirement of this product.

Procedure

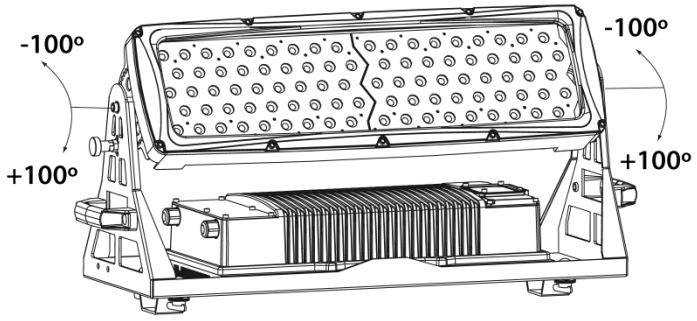
The COLORado™ Ridge IP comes with omega brackets that attach to the bottom of the product using ¼ turn locking screws to which you can attach clamps. You must supply your own clamps and make sure that they are capable of supporting the weight of this product. You must use two mounting points per unit. Alternatively, you can remove the omega brackets and mount the product to the floor.

Product Mounting Diagram



Overhead Mounting

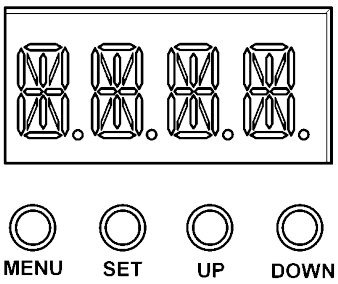
Floor Mounting



4. Operation

Control Panel Description

Button	Function
<MENU>	Exits from the current menu or function
<SET>	Enables the currently displayed menu or sets the currently selected value in to the current function
<UP>	Navigates upward through the menu list and increases the numeric value when in a function
<DOWN>	Navigates downward through the menu list and decreases the numeric value when in a function



Control Options

You can set the COLORado™ Ridge IP start address in the 001~512 DMX range. This enables for the control of up to 46 units in the 11-channel TOUR personality.

Programming

Refer to the Menu Map on page 14 to learn how the menu options relate to each other. The Menu Map has a Main Level and a variable number of programming levels for each option.

To go to an option in the Main Level, press **<MENU>** repeatedly until the option shows on the display. Press **<SET>** to select it. This will take you to the first programming level for that option.

To select an option or value within the current programming level press **<UP>** or **<DOWN>** until it shows on the display. Press **<SET>** to accept it. In this case, if there is another programming level, you will see its first option. Otherwise, you will see the selected value.

To exit to the previous menu level, press **<MENU>**.

DMX Personality

This setting enables the user to choose a particular DMX personality.

1. Go to **PERS**.
2. Select the desired personality (**TOUR**, **ARC1**, **AR1.D**, **ARC3**, **AR3.D**, **AR3.S**, or **HSV**).

- **See the DMX Values section for the highest starting address you can select for each personality.**
- **Make sure that the starting addresses on the various units do not overlap due to the new personality setting. See the DMX Values section.**

DMX Control

In this mode, each unit will respond to a unique starting address from the DMX controller. All units with the same starting address will respond in unison.

1. Select the personality as shown in DMX Personality.
2. Set the running mode:
   a. Go to **RUN**.
   b. Select **DMX**.
3. Set the starting address:
   a. Go to **ADDR**.
   b. Select the starting address (**D001~512**).

The highest possible starting address for each DMX mode are as follows:

DMX Mode	DMX Address	DMX Mode	DMX Address	DMX Mode	DMX Address
TOUR	496	**ARC3**	508	**HSV**	510
ARC1	510	**ARC3+D**	507		
ARC1+D	509	**ARC3+S**	506		

Static Color

The Static Color mode enables for permanent RGBWA color mixing without a DMX controller.

1. Go to **STAT**.
2. Select the desired color (**RED**, **GREN**, **BLUE**, **WHIT**, or **AMBE**).
3. Select the desired color value (**0~255**).
4. Repeat for the other colors.
5. Select **STRB**.
6. Select the desired frequency (**0~20**).

Auto Programs

Auto programs allow for dynamic RGBWA color mixing without a DMX controller.

1. Go to **AUTO**.
2. Select the desired auto (**AT. 01~10**) or custom program (**PR. 01~10**).

You cannot edit any of the auto programs (AT 01~10). However, you can edit the custom programs (PR. 01~10). See Edit Customs for details.

Edit Customs

This setting enables the programming of up to 30 scenes for each of the 10 customizable programs, including colors and effects.

1. Go to **EDIT**.
2. Select the desired auto program (**PR. 01~10**).
3. Select the desired scene (**SC. 01~30**).
4. Select the desired color or effect (**RED**, **GREN**, **BLUE**, **WHIT**, **AMBE**, **STRB**, **TIME**, or **FADE**).
5. Select the color or effect value (**000~255** for colors and timers, or **00~20** for strobe).
6. Repeat for the other colors or effects.
7. Return to the **SC.** level (step “3”).
8. Repeat the settings of colors and effects for the other scenes.

Master/Slave

The Master/Slave mode enables a group of COLORado™ Ridge IPs (the slave units) to duplicate simultaneously the output of another COLORado™ Ridge IP (the master unit) without a DMX controller.

1. Set each of the slave units:
   a. Go to **RUN**.
   b. Select **SLAV**.
2. Set the master unit:
   a. Set the running mode to **DMX** as explained in DMX Control.
   b. Select an auto or custom program as explained in Auto Programs, or a static mix of colors.

- **The master unit is the one that runs a program, whether Auto or Custom, or that operates in Static mode.**
- **Do not connect a DMX controller to the units configured for Master/Slave operation.**
- **The master unit should be the first unit in the DMX daisy chain.**

Color Settings

The **COLOR** setting determines how the COLORado™ Ridge IP generates the white color based on various RGB settings.

1. Go to **SET**.
2. Select **COLO**.
3. Select **OFF**, **RGBW**, or **UC**.

OFF: When all the RGB faders are set to “255”, the output is maximum, although the resulting white color may not be balanced.

RGBW: When all the RGB faders are set to “255”, the resulting output is defined by the configured White color (see Whites Settings).

UC: When all the RGB faders are set to “255”, the output matches that of less efficient products (Universal Color).

Dimmer Curves

This setting determines how fast the output of the COLORado™ Ridge IP changes when the operator modifies the values of the Red, Green, Blue, White, Amber, and Dimmer faders. This setting gives the user four different options to simulate the dimming curve of an incandescent lighting product.

1. Go to **SET**.
2. Select **DIM**.
3. Select a dimmer curve (**OFF**, **DIM1**, **DIM2**, **DIM3**, or **DIM4**).

OFF: The output is proportional (linear) to the Dimmer and RGBWA channel values.

DIM1~4: The output follows the Dimmer and RGBWA channel values based on the corresponding dimmer curve. **DIM1** is the fastest and **DIM4** is the slowest.

Control Panel Lock

This setting enables the user to activate or disable the control panel lock, which keeps non-authorized personnel from changing the product's settings.

1. Go to **KEY**.
2. Select **ON** or **OFF**.

When the control panel lock is active, the product will prompt the user to enter the password after 30 seconds of control panel inactivity or after turning on the product.

After being prompted to enter the password:

1. Press **<UP>**, **<DOWN>**, **<UP>**, **<DOWN>**, and **<SET>**.

Program Upload

This option enables the user to copy the custom programs of one COLORado™ Ridge IP unit onto other COLORado™ Ridge IP units by using the Master/Slave method.

1. Configure and connect the units in a Master/Slave arrangement, where the master unit has the custom programs you want to transfer onto the slave units.
2. At the master unit, go to **SET**.
3. Select **UPLD**.
4. When **PASS** shows press **<SET>**.
5. Enter the master access password as shown in Control Panel Lock.
6. When **SEND** shows, press **<SET>** to start the upload.
7. Wait for the upload process to finish (the display will show **END** before continuing or turning the units off.

The master and slave units will provide the status of the process by lighting up as follows:

- **Yellow indicates that the upload process is running.**
- **Green indicates that the upload process completed successfully.**
- **Red indicates that the upload process failed due to an error. Recheck all cable connections and restart the process. If the issue persists, contact Chauvet Technical Support.**

DO NOT upload the data from a COLORado™ Range IP to a different product. The other product may become inoperative.

Reset

This setting enables the user to reset the COLORado™ Ridge IP to the default values, including the custom programs.

1. Go to **SET**.
2. Select **REST**.
3. When **PASS** shows, press **<SET>**.
4. Enter the master access password as shown in Control Panel Lock.
5. Wait for the reset process to finish. (**REST** will strobe momentarily.)
6. The display will show **END**.

Default Values

Parameter	Default Value	Parameter	Default Value
STAT	**R/G/B/W/A/S 000**	**COLO**	**UC**
AUTO	**AT.01**	**EDIT**	**PR.01/SC.01**
ADDR	**D.001**	**CAL1**	**WH.01**
RUN	**DMX**	**RGB.W**	**R/G/B.255**
PERS	**TOUR**	**WDMX**	**ACTI**
DIM	**DIM4**		

Whites Setting

This setting enables the user to select and edit the temperature of the white colors used in channel 12 (Macros) when in the **TOUR** mode. It also enables the user to define the maximum RGB values when RGB to White (**RGB.W**) is active.

1. Go to **CAL1**.
2. Select a white color (**WHITE 1~11**).
3. Select a color (**RED**, **GREN**, **BLUE**, **WHIT**, or **AMBE**).
4. Select a color value (**0~255**).
5. Repeat for the other colors.

White Calibration

This setting enables the user to select the white color shown by the COLORado™ Ridge IP when the color setting is **RGBW** and the DMX controller's Red, Green, and Blue faders are set to "255."

1. Go to **CAL2**.
2. Select a color (**RED**, **GREN**, or, **BLUE**).
3. Select a color value (**0~255**).
4. Repeat for the other colors

When selecting CAL2 > RGBW you will only be able to define the values of RED, GREN (green), and BLUE.

The values of RED, GREN, and BLUE configured from CAL2 > RGBW will define the color temperature shown when the RGB faders are set to "255" if SET > COLO > RGBW is active.

TOUR Notes

These notes clarify the way the **TOUR** DMX personality works.

Master Dimmer

- Channel 1 controls the intensity of the currently projected color.
- When Channel 1 is at the highest position (**100%**) the intensity of the output is at its maximum.

Red, Green, Blue White, and Amber Color Selection

- Channels 2 through 6 control the intensity ratio of each of the Red, Green, Blue, White, and Amber LEDs in each module.
- When these channels are at the highest position (**100%**), the intensity of each color is at its maximum if **SETTINGS > COLOR** is **OFF**.
- You can combine channels 2 through 6 to create over one trillion colors.

Color Macros

- Channel 7 selects the required Color Macro.
- Channel 7 has priority over channels 2 through 11.
- Channel 1 controls the intensity of the Color Macro.

Strobe

- Channel 8 controls the strobe frequency (not the intensity) of channels 2 through 7.
- Channel 8 can strobe channels 2 through 7 when not running macros; the individual faders (R, G. B, W, and A) as well as channel 1 control the output intensity.
- Channel 8 can strobe channel 7 when running macros, allowing channel 7 to select the macro and channel 1 to control the output intensity.

Auto/Custom

- Channel 9 selects the preset auto programs **AUTO 01~10** or the custom programs **CUSTOM 01~10**.
- When activating the custom programs **CUSTOM 01~10**, it is possible to control the Step Time and Fade Time using channels 2 and 3 respectively.
- Channel 9 has priority over channels 2 through 8.
- Channel 10 controls the speed at which each auto programs plays.

Dimmer Speed

- Channel 11 selects the dimmer mode and speed. Dimmer mode gives the user four different options to simulate the dimming curve of an incandescent lighting product. When **DIMMER** is set to **OFF,** the changes in the RGBWA and Master Dimmer faders are linear. Otherwise, **DIM1** is the fastest dimmer curve, while **DIM4** is the slowest.

Menu Map

Main Level	2nd Level		3rd Level		Description
STAT	RED		000~255 (0~100%)		User can combine Red, Green, Blue, White, and Amber to generate a custom color
	GREN				
	BLUE				
	WHIT				
	AMBE				
	STRB		00~20 (0~20 Hz)		Select a strobe frequency
AUTO	AT.		1~10		Choose from 10 automatic programs
	PR.				Choose from 10 customizable programs
ADDR	D001~512		N/A		Sets the DMX starting address
RUN	DMX/SLAV		N/A		Selects the DMX or SLAVE mode
PERS	TOUR		N/A		11-channel
	ARC.1				3-channel
	AR1.D				4-channel
	ARC.3				5-channel
	AR3.D				6-channel
	AR3.S				7-channel
	HSV				3-channel
SET	UPLD	PASS	SEND	END	Uploads custom programs
	REST	PASS	REST	END	Resets the product to the factory settings
	DIM		OFF		Faders act linearly
			DIM1~4		DIM1 (fastest)~DIM4 (slowest)
	COLO		OFF		No color compensation
			RGBW		White is defined by **CAL2 > RGB.W**
			UC		Color compensation to match older products
EDIT	PR. (1~10)	SC. (01~30)	RED	000~255	User can combine Red, Green, Blue, White, and Amber to generate a custom color.
			GREN		
			BLUE		
			WHIT		
			AMBE		
			STRB	00~20	Selects the strobe frequency (0~20 Hz)
			TIME	000~255	Defines the step duration (0~100%)
			FADE		Defines the fade duration (0~100%)
CAL1	WH. (1~11)		RED	000~255	User can combine Red, Green, Blue, White, and Amber to generate whites with various temperatures (**TOUR > Channel 7**).
			GREN		
			BLUE		
			WHIT		
			AMBE		
CAL2	RGB.W		RED	000~255	User can combine Red, Green, and Blue to generate a balanced white (**SET > COLOR >RGBW)**)
			GREN		
			BLUE		
WDMX (reserved for future use)	ACTI		ON/OFF		Reserved for future use
	REST		YES/NO		Reserved for future use
KEY	ON/OFF		N/A		Turns the password on or off

DMX Values

TOUR

Channel	Function	Value	Percent/Setting
1	**Dimmer**	000 ⇔ 255	0~100%
2	**Module 1 Red**	000 ⇔ 255	0~100%
	Step Time		Only when running custom programs
3	**Module 1 Green**	000 ⇔ 255	0~100%
	Step Time		Only when running custom programs
4	**Module 1 Blue**	000 ⇔ 255	0~100%
5	**Module 1 White**	000 ⇔ 255	0~100%
6	**Module 1 Amber**	000 ⇔ 255	0~100%
7	**Color Macro + White Balance**	000 ⇔ 010	No function
		011 ⇔ 030	R: 100% G: Up B: 0
		031 ⇔ 050	R: Down G: 100% B: 0
		051 ⇔ 070	R: 0 G: 100% B: Up
		071 ⇔ 090	R: 0 G: Down B: 100%
		091 ⇔ 110	R: Up G: 0 B: 100%
		111 ⇔ 130	R: 100% G: 0 B: Down
		131 ⇔ 150	R: 100% G: Up B: Up
		151 ⇔ 170	R: Down G: Down B: 100%
		171 ⇔ 200	R: 100% G: 100% B: 100% W: 100%
		201 ⇔ 205	White 1: 3200 K
		206 ⇔ 210	White 2: 3400 K
		211 ⇔ 215	White 3: 4200 K
		216 ⇔ 220	White 4: 4900 K
		221 ⇔ 225	White 5: 5600 K
		226 ⇔ 230	White 6: 5900 K
		231 ⇔ 235	White 7: 6500 K
		236 ⇔ 240	White 8: 7200 K
		241 ⇔ 245	White 9: 8000 K
		246 ⇔ 250	White 10: 8500 K
		251 ⇔ 255	White 11: 10,000 K
8	**Strobe**	000 ⇔ 010	No Function
		011 ⇔ 255	0~20 Hz
9	**Auto + Custom Programs**	000 ⇔ 040	No function
		041 ⇔ 050	Auto 1
		051 ⇔ 060	Auto 2
		061 ⇔ 070	Auto 3
		071 ⇔ 080	Auto 4
		081 ⇔ 090	Auto 5
		091 ⇔ 100	Auto 6
		101 ⇔ 110	Auto 7
		111 ⇔ 120	Auto 8
		121 ⇔ 130	Auto 9
		131 ⇔ 140	Auto 10
		141 ⇔ 150	Custom 1
		151 ⇔ 160	Custom 2
		161 ⇔ 170	Custom 3
		171 ⇔ 180	Custom 4
		181 ⇔ 190	Custom 5
		191 ⇔ 200	Custom 6
		201 ⇔ 210	Custom 7
		211 ⇔ 220	Custom 8
		221 ⇔ 230	Custom 9
		231 ⇔ 255	Custom 10
10	**Auto Speed**	000 ⇔ 255	Only when running an auto program
11	**Dimmer Speed**	000 ⇔ 009	Dimmer speed as per Control Panel
		010 ⇔ 029	Linear dimmer
		030 ⇔ 069	Non-linear dimmer 1 (fastest)
		070 ⇔ 129	Non-linear dimmer 2
		130 ⇔ 189	Non-linear dimmer 3
		190 ⇔ 255	Non-linear dimmer 4 (slowest)

DMX Values (cont.)

ARC1

Channel	Function	Value	Percent/Setting
1	Red	000 ⇔ 255	0~100%
2	Green	000 ⇔ 255	0~100%
3	Blue	000 ⇔ 255	0~100%

AR1.D

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ⇔ 255	0~100%
2	Red	000 ⇔ 255	0~100%
3	Green	000 ⇔ 255	0~100%
4	Blue	000 ⇔ 255	0~100%

ARC3

Channel	Function	Value	Percent/Setting
1	Red	000 ⇔ 255	0~100%
2	Green	000 ⇔ 255	0~100%
3	Blue	000 ⇔ 255	0~100%
4	White	000 ⇔ 255	0~100%
5	Amber	000 ⇔ 255	0~100%

AR3.D

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ⇔ 255	0~100%
2	Red	000 ⇔ 255	0~100%
3	Green	000 ⇔ 255	0~100%
4	Blue	000 ⇔ 255	0~100%
5	White	000 ⇔ 255	0~100%
6	Amber	000 ⇔ 255	0~100%

AR3.S

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ⇔ 255	0~100%
2	Red	000 ⇔ 255	0~100%
3	Green	000 ⇔ 255	0~100%
4	Blue	000 ⇔ 255	0~100%
5	White	000 ⇔ 255	0~100%
6	Amber	000 ⇔ 255	0~100%
7	Strobe	000 ⇔ 255	0~20 Hz

HSV

Channel	Function	Value	Percent/Setting
1	Hue	000 ⇔ 255	0~100%
2	Saturation	000 ⇔ 255	0~100%
3	Value	000 ⇔ 255	0~100%

5. Technical Information

Product Maintenance

To maintain optimum performance and minimize wear, the user should clean this product frequently. Usage and environment are contributing factors in determining the cleaning frequency.

As a rule, clean this product at least twice a month. Dust build-up reduces light output performance and can cause overheating. This can lead to reduced light source life and increased mechanical wear.

To clean a product, follow the recommendations below:

- Unplug the unit from power.
- Wait until the unit has cooled.
- Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the product.
- Clean all external optics and glass surfaces with a mild solution of non-ammonia glass cleaner or isopropyl alcohol.
- Apply the solution directly to a soft, lint-free cotton cloth or a lens cleaning tissue.
- Drag any dirt or grime to the outside of the glass surface.
- Gently polish the glass surfaces until they are free of haze and lint.

Always dry the external optics and glass surfaces carefully after cleaning them.

Troubleshooting Guide

Symptom	Cause(s)	Action(s)
Product does not light up	Dimmer fader set to “0”	Increase the value of the dimmer channel
	All color faders set to “0”	Increase the value of the color channels
	All colors in STATIC are set to “0”	Increase the values of the colors
	No power	Verify external power circuit and wiring
	Faulty internal power supply Faulty main control board	Send unit for repair
One LEDs does not work	Faulty LED Faulty LED module Faulty LED driver	Send unit for repair
Two or more LEDs do not work on a single module	Faulty LED module Faulty LED driver	Send unit for repair
The wrong LEDs light up when using DMX	Wrong personality	Change the personality
	Wrong DMX address	Change the DMX address
Circuit breaker/fuse keeps tripping/blowing	Excessive circuit load	Reduce total load placed on the electrical circuit
	Short circuit along the power wires	Check electrical wiring
Unit does not power up	No power	Check for voltage on outlet
	Loose or damaged power cord	Check power cord
	Faulty internal power supply	Send unit for repair
Unit does not respond to wired DMX or responds erratically	Wrong DMX addressing	Check unit addressing
	Damaged DMX cables	Check DMX cables
	Wrong polarity on the controller	Check polarity switch settings on the controller
	Loose DMX cables	Check cable connections
	Non DMX cables	Use only DMX compliant cables
	Bouncing signals	Install terminator as suggested
	Long cable / low level signal	Install an optically coupled DMX splitter before a long section of cable or right after the last unit with the strong signal
	Too many units	Install an optically coupled DMX splitter after unit #32
	Interference from AC wires	Keep DMX cables separated from power cables or fluorescent/black lights
	Faulty Display/Main/DMX interface board	Send unit for repair

If you still experience technical problems after trying the above solutions or if you need to send the unit for repair, contact CHAUVET® Technical Support.

Returns

Send the merchandise prepaid, in the original box, and with its original packing and accessories. CHAUVET® will not issue call tags.

Call CHAUVET® and request a Return Merchandise Authorization (RMA) number before shipping the product. Be prepared to provide the model number, serial number, and a brief description of the cause for the return.

Clearly label the package with a Return Merchandise Authorization (RMA) number. CHAUVET® will refuse any product returned without an RMA number.

DO NOT write the RMA number directly on the box. Instead, write it on a properly affixed label.

Once you have received the RMA number please include the following information on a piece of paper inside the box:

- Your name
- Your address
- Your phone number
- The RMA number
- A brief description of the problem

Be sure to pack the product properly. Any shipping damage resulting from inadequate packaging will be the customer's responsibility. As a suggestion, proper FedEx packing or double boxing is the method Chauvet® recommends.

CHAUVET® reserves the right to use its own discretion to repair or replace returned product(s).

Contact Us

World Headquarters

CHAUVET®

General Information

Address:	5200 NW 108th Avenue Sunrise, FL 33351
Voice:	(954) 577-4455
Fax:	(954) 741-5571
Toll free:	(800) 762-1084

Technical Support

Voice:	(954) 577-4455 (Press **4**)
Fax:	(954) 756-8015
Email:	tech@chauvetlighting.com

World Wide Web

www.chauvetpro.com

United Kingdom & Ireland

CHAUVET® Europe Ltd.

General Information

Address:	Unit 1C Brookhill Road Industrial Estate Pinxton, Nottingham, UK NG16 6NT
Voice:	+44 (0)1773 511115
Fax:	+44 (0)1773 511110

Technical Support

Email: uktech@chauvetlighting.com

World Wide Web

www.chauvetlighting.co.uk

Technical Specifications

Dimensions and Weight

Length	Width	Height	Weight
30.9 in (784 mm)	9.9 in (252 mm)	12.2.0 in (310 mm)	53.0 lbs (24.0 kg)

Note: Dimensions in inches rounded to the nearest decimal digit.

Electrical

Power Supply Type	Range	Voltage Selection
Switching (internal)	100~240 V, 50/60 Hz	Auto-ranging

Parameter	120 V, 60 Hz	230 V, 50 Hz
Consumption	275 W	262 W
Operating	2.3 A	1.3 A
Power linking current (units)	N/A	N/A

Power I/O	US/Worldwide	Europe
Power input connector	Hardwired	Hardwired
Power output connector	N/A	N/A
Power cord plug	Edison (US)	Local plug

Light Source

Type	Power	Current	Lifespan
LED	5 W	700~1000 mA	50,000 hours

Color	Quantity
Red	22
Green	22
Blue	22
White	12
Amber	12

Photo Optic

Parameter	30° Installed optics single panel	15° optional optics single panel
Illuminance @ 5 m	287 lux	1,241 lux
Beam angle	21.4°	12.2°
Field angle	39.3°	25.5°

Thermal

Max. External Temperature	Cooling System
104° F (40° C)	Convection

DMX

I/O Connectors	Connector Type	Channel Range
3- pin XLR	Sockets	3, 4, 5, 6, 7, 11

Ordering

Product Name	Item Code	Item Number
COLORado™ Ridge IP	01030107	COLORADORIDGEIP

CONFORMS TO UL STD. 1573

CERTIFIED TO CSA STD. C22.2 No. 166

3144482

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COLORado™ Ridge IP User Manual Rev. 8
September 2012